

AF116527

ACCESSION AF116527

KEYWORDS

ORGANISM *Arabidopsis thaliana*

REFERENCE 1 (bases 1 to 943)

TITLE The FLF MADS box gene: a repressor of flowering in Arabidopsis
regulated by vernalization and methylation

PUBMED 10072403

AUTHORS Sheldon, C.C.

JOURNAL Submitted (22-DEC-1998) Plant Industry, CSIRO, GPO Box 1600,
Canberra, ACT 2600, Australia

```
source      1.  .943
```

```
/organism="Arabidopsis thaliana"
```

```
/mol_type="mRNA"
```

```
/db_xref="taxon:3702"
```

```
/chromosome="5"
```

```
/map="4 cM from RFLP marker 447"
```

```
/ecotype="Columbia"
```

gene	1.	.943
------	----	------

```
/gene="FLF"
```

CDS	110.700
-----	---------

```
/gene="FLF"
```

```
/function="putative transcription factor"
```

```
/codon_start=1
```

```
/product="MADS box protein FLOWERING LOCUS F"
```

```
/protein_id="AAD21248.1"
```

```
/db_xref="GI:4469408"
```

/translation="MGRKKLEIKRIENKSSRQVTFSKRRNGLIEKARQLSVLCDASVA

LLVVSASGKLYSFSSGDNLVKILDRYGKQHADDLKALDHQSKALNYGSHYELLELVDS

KLVGSNVKNVSIDALVQLEEHLETALSVTRAKKTEMLKLVENLKEKEKMLKEENQVL

ASQMENNHHVGAEAE MEMSPAGQISDNLPVTLPLLN"

Query Match 100.0%; Score 943; DB 4; Length 943;

Best Local Similarity 100.0%; Pred. No. 5.9e-283;

Matches 943; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CGAGAAAAGGAAAAAAAAAATAGAAAAGAGAAAACGCTTAGTATCTCCGGCGACTTGAAC 60

Db 1 CGAGAAAAGGAAAAAAAAAAATAGAAAGAGAAAACGCTTAGTATCTCCGGCGACTTGAAC 60

[illegible]

Db 61 CCAAACCTGAGGATCAAATTAGGGCACAAAGCCCTCTCGGAGAGAAGCCATGGGAAGAAA 120

Qy 121 AAAACTAGAAATCAAGCGAATTGAGAACAAAAGTAGCCGACAAGTCACCTTCTCCAAACG 180

Db 121 ||| AAAACTAGAAATCAAGCGAATTGAGAACAAAAGTAGCCGACAAGTCACCTTCTCCAAACG 180

Qy 181 TCGCAACGGTCTCATCGAGAAAGCTCGTCAGCTTTCTGTTCTCTGTGACGCATCCGTCGC 240

Db 181 ||| TCGCAACGGTCTCATCGAGAAAGCTCGTCAGCTTTCTGTTCTCTGTGACGCATCCGTCGC 240

Qy 241 TCTTCTCGTCGTCTCCGCCTCCGGCAAGCTCTACAGCTTCTCCTCCGGCGATAACCTGGT 300

Db 241 ||| TCTTCTCGTCGTCTCCGCCTCCGGCAAGCTCTACAGCTTCTCCTCCGGCGATAACCTGGT 300

Qy 301 CAAGATCCTTGATCGATATGGGAAACAGCATGCTGATGATCTTAAAGCCTTGGATCATCA 360

Db 301 ||| CAAGATCCTTGATCGATATGGGAAACAGCATGCTGATGATCTTAAAGCCTTGGATCATCA 360

Qy 361 GTCAAAAGCTCTGAACTATGGTTTCACACTATGAGCTACTTGAACCTGTGGATAGCAAGCT 420

Db 361 ||| GTCAAAAGCTCTGAACTATGGTTTCACACTATGAGCTACTTGAACCTGTGGATAGCAAGCT 420

Qy 421 TGTGGGATCAAATGTCAAAAATGTGAGTATCGATGCTCTTGTTCAACTGGAGGAACACCT 480

Db 421 ||| TGTGGGATCAAATGTCAAAAATGTGAGTATCGATGCTCTTGTTCAACTGGAGGAACACCT 480

Qy 481 TGAGACTGCCCTCTCCGTGACTAGAGCCAAGAAGACCGAACTCATGTTGAAGCTTGTGTA 540

Db 481 ||| TGAGACTGCCCTCTCCGTGACTAGAGCCAAGAAGACCGAACTCATGTTGAAGCTTGTGTA 540

Qy 541 GAATCTTAAAGAAAAGGAGAAAATGCTGAAAGAAGAGAACCAGGTTTTGGCTAGCCAGAT 600

Db 541 ||| GAATCTTAAAGAAAAGGAGAAAATGCTGAAAGAAGAGAACCAGGTTTTGGCTAGCCAGAT 600

Qy 601 GGAGAATAATCATCATGTGGGAGCAGAAGCTGAGATGGAGATGTCACCTGCTGGACAAAT 660

Db 601 ||| GGAGAATAATCATCATGTGGGAGCAGAAGCTGAGATGGAGATGTCACCTGCTGGACAAAT 660

Qy 661 CTCCGACAATCTTCCGGTGACTCTCCCACTACTTAATTAGCCACCTTAAATCGGCGGTTG 720

Db 661 ||| CTCCGACAATCTTCCGGTGACTCTCCCACTACTTAATTAGCCACCTTAAATCGGCGGTTG 720

Qy 721 AAATCAAAATCCAAAACATATATAATTATGAAGAAAAAAAAAATAAGATATGTAATTATT 780

Db 721 ||| AAATCAAAATCCAAAACATATATAATTATGAAGAAAAAAAAAATAAGATATGTAATTATT 780

Qy 781 CCGCTGATAAGGGCGAGCGTTTGTATATCTTAATACTCTCTCTTTGGCCAAGAGACTTTG 840

Db 781 ||| CCGCTGATAAGGGCGAGCGTTTGTATATCTTAATACTCTCTCTTTGGCCAAGAGACTTTG 840

Qy 841 TGTGTGATACTTAAGTAGACGGAACCTAAGTCAATACTATCTGTTTTAAGACAAAAGGTTG 900

Db 841 ||| TGTGTGATACTTAAGTAGACGGAACCTAAGTCAATACTATCTGTTTTAAGACAAAAGGTTG 900

Qy 901 ATGAACTTTGTACCTTATTTCGTGTGAGAAAAAAAAAAAAAAAA 943

Db 901 ||| ATGAACTTTGTACCTTATTTCGTGTGAGAAAAAAAAAAAAAAAA 943